

IN THE CLAIMS

1-4. (Canceled)

5. (New) A process of treating radioactive waste, comprising:

transferring a solidifying container to a first location of a radioactive waste treatment facility along a transferring line;

preparing a solidifying agent paste by kneading a solidifying agent and an additive water and injecting the solidifying agent paste into the solidifying container at the first location;

transferring the solidifying container to a second location downstream of the first location with respect to a process flow; and

introducing radioactive waste into the solidifying container and kneading the radioactive waste and the solidifying agent paste in the solidifying container at the second location.

6. (New) The process of treating radioactive waste, according to claim 5, further comprising the step of elevating the solidifying container from the transferring line.

7. (New) The process of treating radioactive waste according to claim 5, wherein the kneading of the radioactive waste is performed by an in-drum type waste kneader.

8. (New) The process of treating radioactive waste according to claim 6, wherein the kneading of the radioactive waste is performed by an in-drum type waste kneader.

9. (New) The process of treating radioactive waste according to claim 5, wherein the kneading to the radioactive waste is performed by kneading blades.

10. (New) The process of treating radioactive waste according to claim 5, further comprising the step of providing a partition wall between said first location and said second location.